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Machado et al.

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[54]	MOUNTING ASSEMBLY FOR RIGIDLY
	INTEGRATING A COMPONENT
	THEREWITH

[75] Inventors: Peter W. Machado, Fairhaven, Mass.;

Edward C. Baccei, Portsmouth, R.I.

Assignee: The United States of America as represented by the Secretary of the

Navy, Washington, D.C.

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[56] References Cited

U.S. PATENT DOCUMENTS

3,986,161	10/1976	MacKellar 340/6 R
4,663,601	5/1987	Troutman et al 335/207
5,010,529	4/1991	Maynus 367/137
5,054,778	10/1991	Maleyko 273/58

5,077,841	1/1992	Sugai	4/542
5,387.119	2/1995	Wood	439/281
5,400,008	3/1995	Toohey	340/321
5,503,175	4/1996	Ravillous et al	137/1
5,888,156	5/1999	Cmiel et al	473/570

Primary Examiner-Gary F. Paumen

Assistant Examiner-Ross Gushi

Attorney, Agent, or Firm-Michael J. McGowan; Robert W. Gauthier; Prithvi C. Lall

ABSTRACT [57]

A protective mounting assembly includes an electrical connector having a waterproof body surrounding and protecting a waterproof interface. Components' signal leads are coupled to the interface at a first side thereof. A rigid foundation is rigidly coupled to the connector's waterproof body. A rigid positioning platform is rigidly coupled to the rigid foundation and defines at least one mounting position for the components. The components are positively oriented relative to the mounting positions. An elastomer material encapsulates the rigid foundation, positioning platform, components and a portion of the waterproof body in such a way that the connections at a second side of the connector's interface are accessible from the exterior of the elastomer material.

15 Claims, 2 Drawing Sheets

